

## Spool File For Oracle Students Trained by Mr.Sathish Yellanki

---

SQL> cl scr

SQL> DECLARE

```
2  TYPE Dept_Table_Type --Declaration of The PL/SQL Table Datatype
3  IS TABLE OF
4  Dept.Dname%TYPE --Data Column of The PL/SQL Table
5  INDEX BY BINARY_INTEGER;
6  My_Dept_Table Dept_Table_Type; --Instance Creation of The PL/SQL
Table
```

```
7  V_Count NUMBER(2);
8  BEGIN
9      SELECT COUNT(*) INTO V_Count
10     FROM Dept;
11     FOR MyIndex IN 1..V_Count LOOP
12         SELECT Dname
13            INTO My_Dept_Table(MyIndex)
14            FROM Dept
15            WHERE Deptno = MyIndex * 10;
16     END LOOP;
17     FOR MYIndex IN 1..V_Count LOOP
18         DBMS_OUTPUT.PUT_LINE(My_Dept_Table(MyIndex));
19     END LOOP;
20 END;
21 /
```

ACCOUNTING  
RESEARCH  
SALES  
OPERATIONS

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  TYPE Dept_Table_Type
3  IS TABLE OF
4  Dept%ROWTYPE
5  INDEX BY BINARY_INTEGER;
6  My_Dept_Table Dept_Table_Type;
7  V_Count NUMBER(2);
8  BEGIN
9      SELECT COUNT(*) INTO V_Count
10     FROM Dept;
11     FOR MyIndex IN 1..V_Count
12     LOOP
13         SELECT * INTO My_Dept_Table(MyIndex)
14         FROM Dept
```

---

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**Flat No. 201, II Floor, Abhilash Towers, BK Guda, Hyderabad – 500 038**

**Ph No. +9140 23710047, 64640047, Mobile: 9985798869**

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---

```
15         WHERE Deptno = MyIndex * 10;
16     END LOOP;
17     FOR MyIndex IN 1..V_Count
18     LOOP
19         DBMS_OUTPUT.PUT_LINE('Dept. ' || My_Dept_Table(MyIndex).Deptno || ' '
20         || My_Dept_Table(MyIndex).Dname || ' is Located in ' ||
My_Dept_Table(MyIndex).Loc);
21     END LOOP;
22* END;
SQL> /
Dept. 10 ACCOUNTING is Located in NEW YORK
Dept. 20 RESEARCH is Located in DALLAS
Dept. 30 SALES is Located in CHICAGO
Dept. 40 OPERATIONS is Located in BOSTON
```

PL/SQL procedure successfully completed.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  DECLARE
2  TYPE Dept_Table_Type
3  IS TABLE OF
4  Dept%ROWTYPE
5  INDEX BY BINARY_INTEGER;
6  My_Dept_Table Dept_Table_Type;
7  V_Count NUMBER(2);
8  BEGIN
9  SELECT COUNT(*) INTO V_Count
10 FROM Dept;
11 FOR MyIndex IN 1..V_Count
12 LOOP
13     SELECT
14     Deptno,
15     Dname,
16     Loc
17     INTO
18     My_Dept_Table(MyIndex).Deptno,
19     My_Dept_Table(MyIndex).Dname,
20     My_Dept_Table(MyIndex).Loc
21     FROM Dept
22     WHERE Deptno = MyIndex * 10;
23 END LOOP;
24 FOR MyIndex IN 1..V_Count
25 LOOP
26     DBMS_OUTPUT.PUT_LINE('Dept. ' || My_Dept_Table(MyIndex).Deptno || ' '
27     || My_Dept_Table(MyIndex).Dname || ' is Located in ' ||
My_Dept_Table(MyIndex).Loc);
```

---

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```
28 END LOOP;
29* END;
SQL> /
Dept. 10 ACCOUNTING is Located in NEW YORK
Dept. 20 RESEARCH is Located in DALLAS
Dept. 30 SALES is Located in CHICAGO
Dept. 40 OPERATIONS is Located in BOSTON
```

PL/SQL procedure successfully completed.

```
SQL> cl scr
```

```
SQL> SELECT * FROM Emp;
```

COMM	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL
		DEPTNO				
	7839	KING	PRESIDENT		17-NOV-81	5000
10	7698	BLAKE	MANAGER	7839	01-MAY-81	2850
30	7782	CLARK	MANAGER	7839	09-JUN-81	2450
10	7566	JONES	MANAGER	7839	02-APR-81	2975
20	7654	MARTIN	SALESMAN	7698	28-SEP-81	1250
1400	30					
	7499	ALLEN	SALESMAN	7698	20-FEB-81	1600
300	30					
	7844	TURNER	SALESMAN	7698	08-SEP-81	1500
0	30					
	7900	JAMES	CLERK	7698	03-DEC-81	950
30						
	7521	WARD	SALESMAN	7698	22-FEB-81	1250
500	30					
	7902	FORD	ANALYST	7566	03-DEC-81	3000
20						
	7369	SMITH	CLERK	7902	17-DEC-80	800
20						
	7788	SCOTT	ANALYST	7566	09-DEC-82	3000
20						
	7876	ADAMS	CLERK	7788	12-JAN-83	1100
20						
	7934	MILLER	CLERK	7782	23-JAN-82	1300
10						

14 rows selected.

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SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  TYPE Emp_Table_Type
3  IS TABLE OF
4  Emp%ROWTYPE
5  INDEX BY BINARY_INTEGER;
6  My_Emp_Table Emp_Table_Type;
7  V_RowID NUMBER(2) := 65;
8  V_EmpCount NUMBER(2);
9  BEGIN
10 SELECT COUNT(*) INTO V_EmpCount
11 FROM Emp;
12 FOR MyIndex IN 1..V_EmpCount
13 LOOP
14 SELECT * INTO My_Emp_Table(MyIndex)
15 FROM Emp
16 WHERE SUBSTR(ROWID, 18, 1) = CHR(V_RowID);
17 V_RowID := V_RowID + 1;
18 END LOOP;
19 DBMS_OUTPUT.PUT_LINE(RPAD('Employees Information', 80));
20 DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
21 DBMS_OUTPUT.PUT_LINE(RPAD('EmpNo', 8)|| RPAD('Ename',
12)||RPAD('Job', 12)||RPAD('Deptno', 8)||RPAD('Mgr',
10)||RPAD('Hiredate', 12)||RPAD('Sal', 12)||RPAD('Comm', 10));
22 DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
23 FOR MyIndex IN 1..V_EmpCount LOOP
24 DBMS_OUTPUT.PUT_LINE(RPAD(My_Emp_Table(MyIndex).Empno, 8)
||RPAD(My_Emp_Table(MyIndex).Ename, 12)||RPAD(My_Emp_Table(MyIndex).Job,
12)||RPAD(My_Emp_Table(MyIndex).Deptno,
8)||NVL(TO_CHAR(RPAD(My_Emp_Table(MyIndex).MGR, 10)), 'No
Manager')||RPAD(My_Emp_Table(MyIndex).Hiredate,
12)||RPAD(My_Emp_Table(MyIndex).Sal,
12)||NVL(TO_CHAR(RPAD(My_Emp_Table(MyIndex).Comm, 12)), '-NA-'));
25 END LOOP;
26 DBMS_OUTPUT.PUT_LINE(My_Emp_Table.COUNT||' Rows Selected.');
```

SQL>

Employees Information

EmpNo	Ename	Job	Deptno	Mgr	Hiredate	Sal
-------	-------	-----	--------	-----	----------	-----

Comm

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```

7839      KING      PRESIDENT      10      No Manager17-NOV-81      5000
-NA-
7698      BLAKE      MANAGER      30      7839      01-MAY-81      2850
-NA-
7782      CLARK      MANAGER      10      7839      09-JUN-81      2450
-NA-
7566      JONES      MANAGER      20      7839      02-APR-81      2975
-NA-
7654      MARTIN      SALESMAN      30      7698      28-SEP-81      1250
1400
7499      ALLEN      SALESMAN      30      7698      20-FEB-81      1600
300
7844      TURNER      SALESMAN      30      7698      08-SEP-81      1500
0
7900      JAMES      CLERK      30      7698      03-DEC-81      950
-NA-
7521      WARD      SALESMAN      30      7698      22-FEB-81      1250
500
7902      FORD      ANALYST      20      7566      03-DEC-81      3000
-NA-
7369      SMITH      CLERK      20      7902      17-DEC-80      800
-NA-
7788      SCOTT      ANALYST      20      7566      09-DEC-82      3000
-NA-
7876      ADAMS      CLERK      20      7788      12-JAN-83      1100
-NA-
7934      MILLER      CLERK      10      7782      23-JAN-82      1300
-NA-
14 Rows Selected.
  
```

PL/SQL procedure successfully completed.

SQL> SELECT ROWID, E1.\* FROM Emp E1;

ROWID	EMPNO	ENAME	JOB	MGR	HIREDATE
SAL	COMM	DEPTNO			
AAAOGMAAEAAAHAFAAA	5000	10	7839 KING	PRESIDENT	17-NOV-81
AAAOGMAAEAAAHAFAAB	2850	30	7698 BLAKE	MANAGER	7839 01-MAY-81
AAAOGMAAEAAAHAFAAC	2450	10	7782 CLARK	MANAGER	7839 09-JUN-81
AAAOGMAAEAAAHAFAAD	2975	20	7566 JONES	MANAGER	7839 02-APR-81
AAAOGMAAEAAAHAFAAE	1250	1400	7654 MARTIN	SALESMAN	7698 28-SEP-81

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```
AAAOgMAEAAAAHFAAF      7499 ALLEN      SALESMAN      7698 20-FEB-81
1600      300      30
AAAOgMAEAAAAHFAG      7844 TURNER      SALESMAN      7698 08-SEP-81
1500      0      30
AAAOgMAEAAAAHFAG      7900 JAMES      CLERK      7698 03-DEC-81
950      30
AAAOgMAEAAAAHFAG      7521 WARD      SALESMAN      7698 22-FEB-81
1250      500      30
AAAOgMAEAAAAHFAG      7902 FORD      ANALYST      7566 03-DEC-81
3000      20
AAAOgMAEAAAAHFAG      7369 SMITH      CLERK      7902 17-DEC-80
800      20
AAAOgMAEAAAAHFAG      7788 SCOTT      ANALYST      7566 09-DEC-82
3000      20
AAAOgMAEAAAAHFAG      7876 ADAMS      CLERK      7788 12-JAN-83
1100      20
AAAOgMAEAAAAHFAG      7934 MILLER      CLERK      7782 23-JAN-82
1300      10
```

14 rows selected.

SQL> cl scr

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  TYPE Dept_Table_Type
3  IS TABLE OF
4  Dept.Dname%TYPE
5  INDEX BY BINARY_INTEGER;
6  My_Dept_Table Dept_Table_Type;
7  V_Count NUMBER(2);
8  V_RecNo NUMBER(2) := &EnterRecordNumber;
9  BEGIN
10 SELECT COUNT(*) INTO V_Count
11 FROM Dept;
12 FOR MyIndex IN 1..V_Count
13 LOOP
14 SELECT Dname INTO My_Dept_Table(MyIndex)
15 FROM Dept
16 WHERE Deptno = MyIndex * 10;
17 END LOOP;
18 FOR MYIndex IN 1..V_Count
19 LOOP
20 DBMS_OUTPUT.PUT_LINE('The Department Number, '||MyIndex*10||' is
named as : '||My_Dept_Table(MyIndex));
21 END LOOP;
```

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---

```
22 DBMS_OUTPUT.PUT_LINE('The PLSQL Table Contains
'||My_Dept_Table.COUNT||' Records.');
```

```
23 DBMS_OUTPUT.PUT_LINE('The First Index Number of PLSQL Table is
'||My_Dept_Table.FIRST||' and the First Record is :
'||My_Dept_Table(My_Dept_Table.FIRST));
```

```
24 DBMS_OUTPUT.PUT_LINE('The Last Index Number of PLSQL Table is
'||My_Dept_Table.LAST||' and the Last Record is :
'||My_Dept_Table(My_Dept_Table.LAST));
```

```
25 DBMS_OUTPUT.PUT_LINE('The Previous Record of
'||My_Dept_Table.LAST||'th Record of PLSQL Table is
'||My_Dept_Table.PRIOR(My_Dept_Table.LAST)||' and the Data is :
'||My_Dept_Table(My_Dept_Table.PRIOR(My_Dept_Table.LAST)));
```

```
26 DBMS_OUTPUT.PUT_LINE('The Next Record of '||My_Dept_Table.FIRST||'st
Record of PLSQL Table is '||My_Dept_Table.NEXT(My_Dept_Table.FIRST)||'
and the Data is :
'||My_Dept_Table(My_Dept_Table.NEXT(My_Dept_Table.FIRST)));
```

```
27 IF My_Dept_Table.EXISTS(V_RecNo) THEN
28 DBMS_OUTPUT.PUT_LINE('The Department Exists');
29 DBMS_OUTPUT.PUT_LINE('The Department Name is,
'||My_Dept_Table(V_RecNo));
30 ELSE
31 DBMS_OUTPUT.PUT_LINE('Sorry! ... Your Requested Data does not
Exist...Check the Record Range.');
```

```
32 END IF;
33* END;
SQL> /
```

Enter value for enterrecordnumber: 3

The Department Number, 10 is named as : ACCOUNTING

The Department Number, 20 is named as : RESEARCH

The Department Number, 30 is named as : SALES

The Department Number, 40 is named as : OPERATIONS

The PLSQL Table Contains 4 Records.

The First Index Number of PLSQL Table is 1 and the First Record is :  
ACCOUNTING

The Last Index Number of PLSQL Table is 4 and the Last Record is :  
OPERATIONS

The Previous Record of 4th Record of PLSQL Table is 3 and the Data is :  
SALES

The Next Record of 1st Record of PLSQL Table is 2 and the Data is :  
RESEARCH

The Department Exists

The Department Name is, SALES

PL/SQL procedure successfully completed.

```
SQL> SPOOL OFF
```

---

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